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 W O E R E H  
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 (TM)

Release 3.1A John F. Collins, Biocomputing Research Unit.  
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MPSrch\_pp protein - protein database search, using Smith-Waterman algorithm  
 Run on: Fri Jan 15 15:04:33 1999; MasPar time 3.81 Seconds  
 Tabular output not generated.  
 586.602 Million cell updates/sec

Title: >US-08-790-043B-2  
 Description: (1-256) from US08790043B.pep  
 Perfect Score: 1753  
 Sequence: 1 MLNLENTYVIMGIANRRI.....LSCQVTGENTHVDGPHAIK 256

Scoring table: PAM 150  
 Gap 11

Searched: 92929 seqs, 8738560 residues

Post-processing: Minimum Match 0%  
 Listing first 45 summaries

Database: a-issued  
 1:5-COMB 2:PCR9-COMB 3:backfiles1

Statistics: Mean 30.516; Variance 165.768; scale 0.184

Pred. No. is the number of results predicted by chance to have a  
 score greater than or equal to the score of the result being printed,  
 and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description	Pred. No.
1	748	42.7	262	1	US-08-241-Sequence 9, Applicatio	1.79e-47
2	732	41.8	262	1	US-08-241-Sequence 8, Applicatio	3.09e-46
3	357	20.4	269	1	US-08-241-Sequence 6, Applicatio	1.11e-17
4	355	20.3	269	1	US-08-241-Sequence 7, Applicatio	1.57e-17
5	341	19.5	269	1	US-08-241-Sequence 4, Applicatio	1.72e-16
6	340	19.4	269	1	US-08-241-Sequence 5, Applicatio	2.04e-16
7	340	19.4	269	1	US-08-241-Sequence 14, Applicati	5.81e-08
8	224	12.8	244	1	US-08-762-Sequence 3, Applicatio	1.32e-07
9	219	12.5	244	1	US-08-762-Sequence 4, Applicatio	5.72e-07
10	210	12.0	244	1	US-08-762-Sequence 1, Applicatio	2.99e-04
11	171	9.8	236	1	US-08-594-Sequence 7, Applicatio	9.02e-04
12	164	9.4	246	1	US-08-375-Sequence 13, Applicati	2.73e-02
13	142	8.1	246	3	5229279-7 Patent No. 5229279.	1.00e+00
14	118	6.7	247	1	US-08-241-Sequence 13, Applicatio	2.78e+00
15	111	6.3	229	1	US-08-137-Sequence 6, Applicatio	4.29e+00
16	108	6.2	273	3	5512669-4 Patent No. 5512669.	8.76e+00
17	103	5.9	394	1	US-08-553-Sequence 1, Applicatio	1.34e+01
18	100	5.7	418	1	US-08-477-Sequence 3, Applicatio	1.34e+01
19	100	5.7	418	1	US-08-121-Sequence 3, Applicatio	1.34e+01
20	100	5.7	418	2	PCT-US93-0 Sequence 3, Applicatio	1.34e+01
21	100	5.7	764	2	PCT-US95-1 Sequence 4, Applicatio	1.34e+01
22	100	5.7	764	1	US-08-375-Sequence 4, Applicatio	1.34e+01
23	100	5.7	1089	2	PCT-US95-1 Sequence 2, Applicatio	1.34e+01

24	100	5.7	1089	1	US-08-375-Sequence 2, Applicatio	1.34e+01
25	99	5.6	394	1	US-08-002-Sequence 6, Applicatio	1.54e+01
26	99	5.6	394	1	US-08-002-Sequence 9, Applicatio	1.54e+01
27	99	5.6	394	1	US-08-002-Sequence 11, Applicati	1.54e+01
28	97	5.5	647	1	US-08-218-Sequence 1, Applicatio	2.04e+01
29	95	5.4	477	1	US-08-191-Sequence 2, Applicatio	2.69e+01
30	91	5.2	201	1	US-08-252-Sequence 6, Applicatio	4.67e+01
31	91	5.2	201	1	US-08-292-Sequence 6, Applicatio	4.67e+01
32	91	5.2	201	2	PCT-US93-1 Sequence 51, Applicati	4.07e+01
33	92	5.2	263	1	US-07-721-Sequence 52, Applicati	4.07e+01
34	92	5.2	288	1	US-07-721-Sequence 14, Applicati	4.67e+01
35	91	5.2	318	1	US-08-375-Sequence 2, Applicatio	4.67e+01
36	91	5.2	453	1	US-08-421-Sequence 2, Applicatio	4.67e+01
37	91	5.2	453	1	US-08-089-Sequence 2, Applicatio	4.67e+01
38	92	5.2	582	1	US-08-261-Sequence 1, Applicatio	4.67e+01
39	91	5.2	953	1	US-08-506-Sequence 2, Applicatio	4.67e+01
40	91	5.2	15281	1	US-08-471-Sequence 2, Applicatio	5.36e+01
41	90	5.1	117	1	US-08-178-Sequence 10, Applicati	5.36e+01
42	90	5.1	1170	1	US-08-313-Sequence 20, Applicati	5.36e+01
43	90	5.1	2366	1	US-08-480-Sequence 8, Applicatio	5.36e+01
44	90	5.1	3033	1	US-07-925-Sequence 9, Applicatio	5.36e+01
45	90	5.1	3033	1	US-07-925-Sequence 9, Applicatio	5.36e+01

## ALIGNMENTS

RESULT 1  
 ID US-08-241-766-9 STANDARD; PRT; 262 AA.  
 XX  
 AC xxxxxx  
 XX

Sequence 9, Application US/08241766

Sequence 9, Application US/08241766

Patent No. 5686590

GENERAL INFORMATION:

APPLICANT: JACOBS, W. R.

APPLICANT: COLLINS, D. M.

APPLICANT: BANERJEE, A. A.

APPLICANT: GELISLE, G. W.

APPLICANT: WILSON, T. M.

TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DETECTING

TITLE OF INVENTION: AND TREATING MYCOBACTERIAL INFECTIONS USING AN INHA AGE

NUMBER OF SEQUENCES: 14

CORRESPONDENCE ADDRESS:

ADDRESSEE: MORRISON & FOERSTER

STREET: 755 Page Mill Road

CITY: Palo Alto

STATE: CA

COUNTRY: USA

ZIP: 94304-1018

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/241.766

FILING DATE: 12-MAY-1994

CLASSIFICATION: 514

ATTORNEY/AGENT INFORMATION:

NAME: MONROY, GLADYS H.

REGISTRATION NUMBER: 32,430

REFERENCE/DOCKET NUMBER: 25237-20003.20

TELECOMMUNICATION INFORMATION:

TELEPHONE: (415) 813-5600

TELEFAX: (415) 494-0792

TELEX: 706141

INFORMATION FOR SEQ ID NO: 9:

SEQUENCE CHARACTERISTICS:

LENGTH: 262 amino acids

CC TYPE: amino acid  
CC STRANDEDNESS: single  
CC TOPOLOGY: linear  
SQ SEQUENCE 262 AA; 27864 MW; 329262 CN;  
Query Match 42.7%; Score 748; DB 1; Length 262;  
Best Local Similarity 44.4%; Pred. No. 1.79e-47;  
Matches 111; Conservative 65; Mismatches 71; Indels 3; Gaps 3;  
DB 4 LSGKRILVTGASKLSIAIYGAIAQAMHREGAELAFYQNDKLGKRVFEFAAQGLG-SDIVL- 61  
QY 4 LNKTVIVMGIANKRSIAFGVAKVLDQGLAKLVFTYRKERSRKELEKLEQLNQPEAHLY 63  
DB 62 QCDVAEDASIDTMEAFELGKVPKDFGVHSIGFAPGDDGDDYVNAVTRGFKIAHDISS 121  
QY 64 QIDVQSDVEEVINGFEQIGKDV-NGIDGVYHSIAFANMEDLRGFSET-SREGFLLAQDIS 122  
DB 122 YEFVAMAKACRMLNPGSALLTSLYGAERAIPTNVMGLAKASLEAVRYMANAMGPEG 181  
QY 123 YSLTIVAHAKLMPGEGSIVATYTLGGEFAVQNYVMGVAKASLEAVRYKYLALDLGPDN 182  
DB 182 VRYNAISAGPIRTLAASGKIDFRKMLAHCEAVTPIRTVTIEDVGNAAFLCSDLSAGIS 241  
QY 183 IRVNAISAGPIRTLSAKGVGGFNITLKEIERAPLKRNVDOVEVGKTAAYLLSDLSGVT 242  
DB 242 GEVHVHVDGDF 251  
QY 243 GENIHVDSGF 252  
RESULT 2  
ID US-08-241-766-8 STANDARD; PRT; 262 AA.  
XX AC xxxxxx  
DE DT  
XX DE  
XX DE  
Sequence 8, Application US/08241766  
Sequence 8, Application US/08241766  
Patent No. 5686590  
GENERAL INFORMATION:  
CC APPLICANT: JACOBS, W. R.  
CC APPLICANT: COLLINS, D. M.  
CC APPLICANT: BANERJEE, A.  
CC APPLICANT: DELISLE, G. W.  
CC APPLICANT: WILSON, T. M.  
CC TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DETECTING  
CC TITLE OF INVENTION: AND TREATING MYCOBACTERIAL INFECTIONS USING AN INHA AGENT  
CC NUMBER OF SEQUENCES: 14  
CC CORRESPONDENCE ADDRESS:  
CC ADDRESSEE: MORRISON & FOERSTER  
CC STREET: 755 Page Mill Road  
CC CITY: Palo Alto  
CC STATE: CA  
CC COUNTRY: USA  
CC ZIP: 94304-1018  
CC COMPUTER READABLE FORM:  
CC MEDIUM TYPE: Floppy disk  
CC COMPUTER: IBM PC compatible  
CC OPERATING SYSTEM: PC-DOS/MS-DOS  
CC SOFTWARE: PatentIn Release #1.0, Version #1.25  
CC CURRENT APPLICATION DATA:  
CC APPLICATION NUMBER: US/08/241,766  
CC FILING DATE: 12-MAY-1994  
CC CLASSIFICATION: 514  
CC ATTORNEY/AGENT INFORMATION:  
CC NAME: MONROY, GLADYS H.  
CC REGISTRATION NUMBER: 32,430  
CC REFERENCE/DOCKET NUMBER: 25237-20003.20  
CC TELECOMMUNICATION INFORMATION:  
CC TELEPHONE: (415) 813-5600  
CC TELEFAX: (415) 494-0792

CC TELEX: 706141  
CC INFORMATION FOR SEQ ID NO: 8:  
CC SEQUENCE CHARACTERISTICS:  
CC LENGTH: 262 amino acids  
CC TYPE: amino acid  
CC STRANDEDNESS: single  
CC TOPOLOGY: linear  
SQ SEQUENCE 262 AA; 27761 MW; 329911 CN;  
Query Match 41.8%; Score 732; DB 1; Length 262;  
Best Local Similarity 43.8%; Pred. No. 3.09e-46;  
Matches 110; Conservative 65; Mismatches 71; Indels 5; Gaps 5;  
DB 4 LSGKRILVTGASKLSIAIYGAIAQAMHREGAELAFYQNDKLGKRVFEFAAQGLGSSIV-L- 61  
QY 4 LNKTVIVMGIANKRSIAFGVAKVLDQGLAKLVFTYRKERSRKELEKLEQLNQPEAHLY 63  
DB 62 QCDVAEDASIDTMEAFELG-NNWPKDFGVHSIGFAPGDDGDDYVNAVTRGFKVHAHDS 120  
QY 64 QIDVQSDVEEVINGFEQIGKDV-NGIDGVYHSIAFANMEDLRGFSET-SREGFLLAQDIS 121  
DB 121 SYFVAMAKACRMLNPGSALLTSLYGAERAIPTNVMGLAKASLEAVRYMANAMGPE 180  
QY 122 YSLTIVAHAKLMPGEGSIVATYTLGGEFAVQNYVMGVAKASLEAVRYKYLALDLGPD 181  
DB 181 GVRVNAISAGPIRTLAASGKIDFRKMLAHCEAVTPIRTVTIEDVGNAAFLCSDLSAGI 240  
QY 182 NIRVNAISAGPIRTLSAKGVGGFNITLKEIERAPLKRNVDOVEVGKTAAYLLSDLSGV- 241  
DB 241 GEVHVHVDGDF 251  
QY 242 TGENIHVDSGF 252  
RESULT 3  
ID US-08-241-766-6 STANDARD; PRT; 269 AA.  
XX AC xxxxxx  
DE DT  
XX DE  
XX DE  
Sequence 6, Application US/08241766  
Sequence 6, Application US/08241766  
Patent No. 5686590  
GENERAL INFORMATION:  
CC APPLICANT: JACOBS, W. R.  
CC APPLICANT: COLLINS, D. M.  
CC APPLICANT: BANERJEE, A.  
CC APPLICANT: DELISLE, G. W.  
CC APPLICANT: WILSON, T. M.  
CC TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DETECTING  
CC TITLE OF INVENTION: AND TREATING MYCOBACTERIAL INFECTIONS USING AN INHA AGENT  
CC NUMBER OF SEQUENCES: 14  
CC CORRESPONDENCE ADDRESS:  
CC ADDRESSEE: MORRISON & FOERSTER  
CC STREET: 755 Page Mill Road  
CC CITY: Palo Alto  
CC STATE: CA  
CC COUNTRY: USA  
CC ZIP: 94304-1018  
CC COMPUTER READABLE FORM:  
CC MEDIUM TYPE: Floppy disk  
CC COMPUTER: IBM PC compatible  
CC OPERATING SYSTEM: PC-DOS/MS-DOS  
CC SOFTWARE: PatentIn Release #1.0, Version #1.25  
CC CURRENT APPLICATION DATA:  
CC APPLICATION NUMBER: US/08/241,766  
CC FILING DATE: 12-MAY-1994  
CC CLASSIFICATION: 514  
CC ATTORNEY/AGENT INFORMATION:  
CC NAME: MONROY, GLADYS H.  
CC REGISTRATION NUMBER: 32,430



SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/241,766

FILING DATE: 12-MAY-1994

CLASSIFICATION: 514

ATTORNEY/AGENT INFORMATION:

NAME: MONROY, GLADYS H.

REGISTRATION NUMBER: 32,430

REFERENCE/DOCKET NUMBER: 25237-20003.20

TELEPHONE: (415) 813-5600

TELEFAX: (415) 494-0792

TELEX: 706141

INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:

LENGTH: 269 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

SEQUENCE 269 AA; 28514 MW; 350722 CN;

Query Match 19.5%; Score 341; DB 1; Length 269;

Best Local Similarity 33.5%; Pred. No. 1.72e-16;

Matches 89; Conservative 65; Mismatches 93; Indels 19; Gaps 14;

Db 5 LDGKRILVSGIITDSSIAFHARVAQOQAGLVLT-GFDRRL-IGRITDRL-PAKAPLL 61

QY 4 LENKTVIMGIANKRSIAFGVAKVLDGLGAKLVFTYRKERSRKELEKLLQLNQPEAHLY 63

Db 62 ELDVQNEEHLASLAGRVTEAIGAGNKLDGVVHIGFMPQGMGINPFDAPYADVSKGIH 121

QY 64 QIDVQSDVEEVINGFEQIGKDVG--N-IDGVYHSIAFANMEDL-RGRFSETSGREGFLAQD 119

Db 122 ISAYSASMAKALLPTMPPGSGIVGDMF-DPSRAMPAYNMVTVAKSALESVNFVAREAG 180

QY 120 ISSYSLTIVAHEAKKLMPEGGSIVATYILGGEFAVQNYVMGVAKASLEANVYKLLDGL 179

Db 181 KYGVRNLVCAPIRLTAMSAIVGGALGEEAGAQIQLLEGWQORAPIGNMKDAPYVAK 240

QY 180 PDNIRVNAISAGPIRLTSAKG-VGG-F--NT---I--LKEI-BERAPLKRNV-DQVEVGK 228

Db 241 TVCALLSDWLPATGDIIVADGGAHT 266

QY 229 TAAVLLSDLSGVTGENIHVDSGFHA 254

RESULT

US-08-241-766-5 STANDARD; PRT; 269 AA.

xxxxxx

Sequence 5, Application US/08241766

Sequence 5, Application US/08241766

Patent No. 5686590

GENERAL INFORMATION:

APPLICANT: JACOBS, W. R.

APPLICANT: COLLINS, D. M.

APPLICANT: BANERJEE, A.

APPLICANT: GELISLE, G. W.

APPLICANT: WILSON, T. M.

TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DETECTING

TITLE OF INVENTION: AND TREATING MYCOBACTERIAL INFECTIONS USING AN INHA AGENT

NUMBER OF SEQUENCES: 14

CORRESPONDENCE ADDRESS:

ADDRESS: MORRISON &amp; FOERSTER

STREET: 755 Page Mill Road

CITY: Palo Alto

STATE: CA

COUNTRY: USA

ZIP: 94304-1018

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COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/241,766

FILING DATE: 12-MAY-1994

CLASSIFICATION: 514

ATTORNEY/AGENT INFORMATION:

NAME: MONROY, GLADYS H.

REGISTRATION NUMBER: 32,430

REFERENCE/DOCKET NUMBER: 25237-20003.20

TELEPHONE: (415) 813-5600

TELEFAX: (415) 494-0792

TELEX: 706141

INFORMATION FOR SEQ ID NO: 5:

SEQUENCE CHARACTERISTICS:

LENGTH: 269 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

SEQUENCE 269 AA; 28512 MW; 347982 CN;

Query Match 19.4%; Score 340; DB 1; Length 269;

Best Local Similarity 33.1%; Pred. No. 2.04e-16;

Matches 88; Conservative 66; Mismatches 93; Indels 19; Gaps 14;

Db 5 LDGKRILVSGIITDSSIAFHARVAQOQAGLVLT-GFDRRL-IGRITDRL-PAKAPLL 61

QY 4 LENKTVIMGIANKRSIAFGVAKVLDGLGAKLVFTYRKERSRKELEKLLQLNQPEAHLY 63

Db 62 ELDVQNEEHLASLAGRVTEAIGAGNKLDGVVHIGFMPQGMGINPFDAPYADVSKGIH 121

QY 64 QIDVQSDVEEVINGFEQIGKDVG--N-IDGVYHSIAFANMEDL-RGRFSETSGREGFLAQD 119

Db 122 ISAYSASMAKALLPTMPPGSGIVGDMF-DPSRAMPAYNMVTVAKSALESVNFVAREAG 180

QY 120 ISSYSLTIVAHEAKKLMPEGGSIVATYILGGEFAVQNYVMGVAKASLEANVYKLLDGL 179

Db 181 KYGVRNLVCAPIRLTAMSAIVGGALGEEAGAQIQLLEGWQORAPIGNMKDAPYVAK 240

QY 180 PDNIRVNAISAGPIRLTSAKG-VGG-F--NT---I--LKEI-BERAPLKRNV-DQVEVGK 228

Db 241 TVCALLSDWLPATGDIIVADGGAHT 266

QY 229 TAAVLLSDLSGVTGENIHVDSGFHA 254

RESULT

US-08-241-766-14 STANDARD; PRT; 269 AA.

xxxxxx

Sequence 14, Application US/08241766

Sequence 14, Application US/08241766

Patent No. 5686590

GENERAL INFORMATION:

APPLICANT: JACOBS, W. R.

APPLICANT: COLLINS, D. M.

APPLICANT: BANERJEE, A.

APPLICANT: GELISLE, G. W.

APPLICANT: WILSON, T. M.

TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DETECTING

TITLE OF INVENTION: AND TREATING MYCOBACTERIAL INFECTIONS USING AN INHA AGENT

NUMBER OF SEQUENCES: 14

CORRESPONDENCE ADDRESS:

ADDRESS: MORRISON &amp; FOERSTER

STREET: 755 Page Mill Road

CITY: Palo Alto

STATE: CA

COUNTRY: USA

ZIP: 94304-1018

CC CITY: Palo Alto  
CC STATE: CA  
CC COUNTRY: USA  
CC ZIP: 94304-1018  
CC COMPUTER READABLE FORM:  
CC MEDIUM TYPE: Floppy disk  
CC OPERATING SYSTEM: PC-DOS/MS-DOS  
CC SOFTWARE: Patentin Release #1.0, Version #1.25  
CC CURRENT APPLICATION DATA:  
CC APPLICATION NUMBER: US/08/241,766  
CC FILING DATE: 12-MAY-1994  
CC CLASSIFICATION: 514  
CC ATTORNEY/AGENT INFORMATION:  
CC NAME: MONROY, GLADYS H.  
CC REGISTRATION NUMBER: 32,430  
CC REFERENCE/DOCKET NUMBER: 25237-20003.20  
CC TELECOMMUNICATION INFORMATION:  
CC TELEPHONE: (415) 813-5600  
CC TELEFAX: (415) 494-0792  
CC TELEX: 706141

CC INFORMATION FOR SEQ ID NO: 14:

CC SEQUENCE CHARACTERISTICS:

CC LENGTH: 269 amino acids

CC TYPE: amino acid

CC TOPOLOGY: linear

CC MOLECULE TYPE: protein  
CC SEQUENCE 269 AA; 28512 MW; 347982 CN;

Query Match 19.4%; Score 340; DB 1; Length 269;

Best Local Similarity 33.1%; Pred. No. 2.04e-16;  
Matches 88; Conservative 66; Mismatches 93; Indels 19; Gaps 14;

Db 5 LDGRRILVSGIITDSSIAFHARVAQEQAGLVLT-GFDRRLR-IQRTDRL-PAKAPLL 61  
QY 4 LENKTYVMGIANKRSATFAGVAKVLDQGLAKLVITYKRSRKELEKLEQLNQPEAHLY 63  
Db 62 ELQVNEEHLASLAGRVEATGAGNLDGVVHAIGFMPQTGMGINPFDPADYADVSKGIH 121  
QY 64 QIDVQSDVEEVINGEQIGKDVG--N-IDGVVHSAFANMEDL-RGRFSETSGREGFLLAQD 119  
Db 122 ISAYSASMAKALLPINPGSGIVGDMF-DPSRAMPAYNMWTVAKSALESVNRVAREAG 180  
QY 120 ISSVSLTIVAHEAKKLEPPGSGIVATTYLGGEFAQVNYNMGVAKASLEAVKYLALDGL 179  
Db 181 KYGVRSLVAGPIRTLAMSIVGALGEEAGAIQLLECGMDORAPIGNWMDATPVAK 240  
QY 180 PDNTRVNAISAGPIRTLSAGK-VGG-F--NI--I-LKEI-EERAPLKRNV-DQVEVGK 228  
Db 241 TVCALLSDWLPATGDIYADGGAHT 266  
QY 229 TAAVLLSLSGSGVTGENIHVDSPGPHA 254

RESULT 8  
ID US-08-762-129-3 STANDARD; PRT; 244 AA.  
XX  
AC  
XX  
DT  
XX  
XX

Sequence 3, Application US/08762129

Sequence 3, Application US/08762129

Patent No. 5756299

GENERAL INFORMATION:

APPLICANT: Hillman, Jennifer L.

APPLICANT: Goli, Surya K.

TITLE OF INVENTION: A NOVEL HUMAN CARBONYL REDUCTASE

NUMBER OF SEQUENCES: 5

CORRESPONDENCE ADDRESS:

ADDRESSEE: Incyte Pharmaceuticals, Inc.

STREET: 3174 Porter Drive

CC CITY: Palo Alto  
CC STATE: CA  
CC COUNTRY: USA  
CC ZIP: 94304  
CC COMPUTER READABLE FORM:  
CC MEDIUM TYPE: Diskette  
CC OPERATING SYSTEM: DOS  
CC SOFTWARE: FastSeq for Windows Version 2.0  
CC CURRENT APPLICATION DATA:  
CC APPLICATION NUMBER: US/08/762,129  
CC FILING DATE: Herewith  
CC CLASSIFICATION: 514  
CC PRIOR APPLICATION DATA:  
CC APPLICATION NUMBER:  
CC FILING DATE:  
CC ATTORNEY/AGENT INFORMATION:  
CC NAME: Billings, Lucy J.  
CC REGISTRATION NUMBER: 36,749  
CC REFERENCE/DOCKET NUMBER: PF-0171 US  
CC TELECOMMUNICATION INFORMATION:  
CC TELEPHONE: 415-855-0555  
CC TELEFAX: 415-845-4166  
CC TELEX:

CC INFORMATION FOR SEQ ID NO: 3:

CC SEQUENCE CHARACTERISTICS:

CC LENGTH: 244 amino acids

CC TYPE: amino acid

CC STRANDEDNESS: single

CC TOPOLOGY: linear

CC IMMEDIATE SOURCE:

CC LIBRARY: GenBank

CC CLONE: 416425

CC SEQUENCE 244 AA; 25986 MW; 333095 CN;

Query Match 12.8%; Score 224; DB 1; Length 244;

Best Local Similarity 24.2%; Pred. No. 5.81e-08;

Matches 44; Conservative 56; Mismatches 78; Indels 4; Gaps 3;

Db 61 LGDWEATERALGGVGPVDDLNNNAVA-LMQPFLDTTKEVDFSRFNVLRSVFOVSQIVA 119  
QY 74 INGFEQTKDVGNDIGVYHSTAFANMEDLRGRFSETSGREGFLLAQDSSYSLTIVAHEAK 133  
Db 120 RSMTERGVPGSGIVNVSVMVSHVTPGLAAYSSTKGAMTMTLTKSMAMELGPHKIRVNSVNP 179  
QY 134 KLMEPE-G-GSIVATVTLGGEFAQVNYNMGVAKASLEAVKYLALDGLDPNIRVNAISA 190  
Db 180 TVVLTAMGRSVTSDPELARKLKRHPMKRFAEVEDVYVNSILFLSDRSASTSGSSIFVDA 239  
QY 191 GPIRTLSAKGVGGFNTILKTEERAPLKRNVDOVEVGKTAAYLLSLLSSGVTGENIHVDS 250  
Db 240 GY 241  
QY 251 GF 252

RESULT 9  
ID US-08-762-129-4 STANDARD; PRT; 244 AA.  
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AC  
XX  
DT  
XX  
XX

Sequence 4, Application US/08762129

Sequence 4, Application US/08762129

Patent No. 5756299

GENERAL INFORMATION:

APPLICANT: Hillman, Jennifer L.

APPLICANT: Goli, Surya K.

TITLE OF INVENTION: A NOVEL HUMAN CARBONYL REDUCTASE

NUMBER OF SEQUENCES: 5

CORRESPONDENCE ADDRESS:

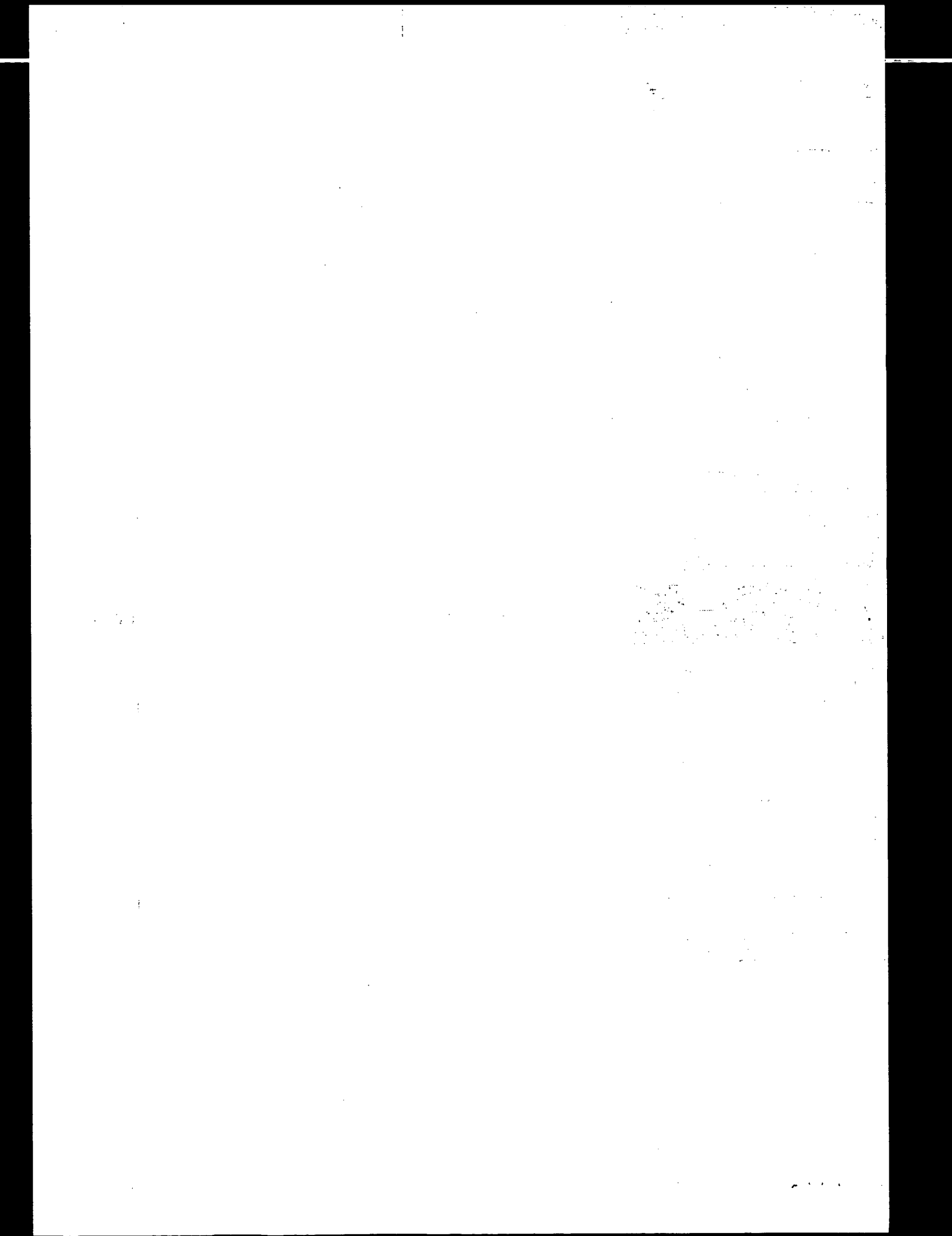








Job time : 16 secs.



\*\*\*\*\*  
M O S E R E H  
(TM)  
\*\*\*\*\*

Release 3.1A John F. Collins, Biocomputing Research Unit.  
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MPsrch\_nn n.a. - n.a. database search, using Smith-Waterman algorithm  
Run on: Fri Jan 15 15:40:37 1999; MasPar time 43.45 Seconds  
Tabular output not generated. 1102.362 Million cell updates/sec

Title: >US-08-790-043B-1  
Description: (1-771) from US08790043B.seq  
Perfect Score: 771  
N.A. Sequence: 1 ATGTTAAATCTTGAACAA.....GATTCACCAATTAATAA 771  
Comp: TACAATTTAGAACTTTTGT.....CTAAGGTGCGTTAATTAT

Scoring table: TABLE default  
Gap 6  
Nmatch STD : Dbase 0; Query 0  
Searched: 120476 seqs, 31064459 bases x 2  
Post-processing: Minimum Match 0%  
Listing first 45 summaries  
Database: n-issued  
1:5\_COMB 2:PCT9\_COMB 3:backfiles1  
Statistics: Mean 8.068; Variance 4.336; scale 1.861

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES				
Result No.	Score	Query Match	Description	Pred. No.
C 1	55	7.1	US-08-232-Sequence 14, Applicati	1.62e-22
C 2	27	3.5	US-08-238-Sequence 5, Applicatio	3.81e-04
C 3	27	3.5	US-08-238-Sequence 1, Applicatio	3.81e-04
C 4	24	3.1	US-08-238-Sequence 5, Applicatio	2.03e-02
C 5	22	2.9	US-08-278-Sequence 1, Applicatio	2.58e-01
C 6	22	2.9	US-08-472-Sequence 1, Applicatio	2.58e-01
C 7	22	2.9	US-08-483-Sequence 1, Applicatio	2.58e-01
C 8	21	2.7	PCT-US95-1-Sequence 100, Applicat	8.85e-01
C 9	21	2.7	PCT-US95-1-Sequence 94, Applicati	8.85e-01
C 10	21	2.7	PCT-US95-1-Sequence 98, Applicati	8.85e-01
C 11	21	2.7	PCT-US95-1-Sequence 92, Applicati	8.85e-01
C 12	21	2.7	PCT-US91-0-Sequence 1, Applicatio	8.85e-01
C 13	21	2.7	US-08-158-Sequence 1, Applicatio	8.85e-01
C 14	21	2.7	US-08-452-Sequence 43, Applicatio	8.85e-01
C 15	20	2.6	US-08-452-Sequence 15, Applicatio	2.95e+00
C 16	20	2.6	US-08-452-Sequence 14, Applicati	2.95e+00
C 17	20	2.6	PCT-US95-1-Sequence 99, Applicati	2.95e+00
C 18	20	2.6	PCT-US95-1-Sequence 97, Applicati	2.95e+00
C 19	20	2.6	PCT-US95-1-Sequence 98, Applicati	2.95e+00
C 20	20	2.6	PCT-US95-1-Sequence 97, Applicati	2.95e+00

21 20 2.6 90 1 US-08-442-Sequence 30, Applicati 2.95e+00  
22 20 2.6 579 2 PCT-US96-0-Sequence 1664, Applicatio 2.95e+00  
C 23 20 2.6 1265 1 US-08-182-Sequence 5, Applicatio 2.95e+00  
24 20 2.6 1323 1 US-08-307-Sequence 36, Applicatio 2.95e+00  
25 20 2.6 1930 3 5171685-5 Patent No. 5171685 2.95e+00  
26 20 2.6 1930 3 5518916-5 Patent No. 5518916 2.95e+00  
27 20 2.6 4383 3 5177307-1 Patent No. 5177307 2.95e+00  
28 20 2.6 4383 3 5175095-4 Patent No. 5175095 2.95e+00  
29 20 2.6 8082 1 PCT-US93-0-Sequence 28, Applicati 2.95e+00  
30 20 2.6 14176 1 US-08-307-Sequence 14, Applicati 2.95e+00  
C 31 20 2.6 14176 1 US-08-307-Sequence 1, Applicatio 2.95e+00  
C 32 19 2.5 66 2 PCT-US95-1-Sequence 93, Applicati 2.95e+00  
C 33 19 2.5 74 2 PCT-US95-1-Sequence 100, Applicati 9.50e+00  
C 34 19 2.5 92 1 US-08-353-Sequence 16, Applicati 9.50e+00  
C 35 19 2.5 92 1 US-08-353-Sequence 16, Applicati 9.50e+00  
C 36 19 2.5 774 2 PCT-US91-0-Sequence 1, Applicatio 9.50e+00  
C 37 19 2.5 867 1 US-08-628-Sequence 6, Applicatio 9.50e+00  
C 38 19 2.5 1079 1 US-07-809-Sequence 1, Applicatio 9.50e+00  
C 39 19 2.5 1561 2 PCT-US92-0-Sequence 25, Applicati 9.50e+00  
C 40 19 2.5 2504 1 US-08-484-Sequence 15, Applicati 9.50e+00  
C 41 19 2.5 2712 2 PCT-US95-0-Sequence 37, Applicati 9.50e+00  
C 42 19 2.5 3104 2 PCT-US95-0-Sequence 66, Applicati 9.50e+00  
C 43 19 2.5 5183 1 US-08-459-Sequence 3, Applicatio 9.50e+00  
C 44 19 2.5 14311 2 PCT-US96-0-Sequence 1, Applicatio 9.50e+00  
C 45 19 2.5 14311 2 PCT-US96-0-Sequence 7, Applicatio 9.50e+00

ALIGNMENTS

RESULT 1  
ID US-08-232-463-14 STANDARD; DNA; UNC; 7218 BP.  
AC xxxxxx  
DT  
Sequence 14, Application US/08232463  
Sequence 14, Application US/08232463  
Patent No. 5670367  
GENERAL INFORMATION:  
CC APPLICANT: DORNER, F.  
CC APPLICANT: SCHEIFLINGER, F.  
CC APPLICANT: FALKNER, F. G.  
CC TITLE OF INVENTION: RECOMBINANT FOWLPOX VIRUS  
CC NUMBER OF SEQUENCES: 52  
CC CORRESPONDENCE ADDRESS:  
CC ADDRESSEE: Foley & Lardner  
CC STREET: 1800 Diagonal Road, Suite 500  
CC CITY: Alexandria  
CC STATE: VA  
CC COUNTRY: USA  
CC ZIP: 22313-0299  
CC COMPUTER READABLE FORM:  
CC MEDIUM TYPE: Floppy disk  
CC OPERATING SYSTEM: PC-DOS/MS-DOS  
CC SOFTWARE: Patent In Release #1.0, Version #1.25  
CC CURRENT APPLICATION DATA:  
CC APPLICATION NUMBER: US/08/232,463  
CC FILING DATE:  
CC CLASSIFICATION: 435  
CC PRIOR APPLICATION DATA:  
CC APPLICATION NUMBER: US/07/935,313  
CC FILING DATE:  
CC APPLICATION NUMBER: EP 91 114 300.6  
CC FILING DATE: 26-AUG-1991  
CC ATTORNEY/AGENT INFORMATION:  
CC NAME: BENT, Stephen A.  
CC REGISTRATION NUMBER: 29,768  
CC REFERENCE/DOCKET NUMBER: 30472/114 IMMU  
CC TELECOMMUNICATION INFORMATION:  
CC TELEPHONE: (703)836-9300  
CC TELEFAX: (703)683-4109  
CC TELEX: 899149  
CC INFORMATION FOR SEQ ID NO: 14:  
CC SEQUENCE CHARACTERISTICS:



SEQUENCE CHARACTERISTICS:  
LENGTH: 29 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
SEQUENCE 290 BP; 17 A; 34 C; 8 G; 11 T; 220 OTHER.

Query Match  
Best Local Similarity 3.5%; Score 27; DB 1; Length 242;  
Matches 15; Conservative 30; Mismatches 89; Indels 0; Gaps 0;

Db 75 ALLEDFROMCFRFORM\*FXPCALLEDFROMCRCONVT\*FXPCALLEDFROMON\*\*\*CA 134  
QY 508 AATGTTAAATATTGACATTAAGTCTAGGCTGATATATTCGTTAATGCAATTCA 567  
Db 135 LLEDFROMPROCEDUREGETPATHCCRFAPPSCRF\*EXECALLEDFROMON\*\*\*CALLED 194  
QY 568 GCTGTCATCCGATACATTAAGTGCRAAAGGTGGGTGTTCAATACAAATCTTAA 627  
Db 195 FROMCCRFAPPSCR 208  
QY 628 GAAATCGAAGAGCG 641

RESULT 4  
ID US-08-238-163-5 STANDARD; DNA; UNC; 215 BP.  
AC xxxxxx  
DT  
DE  
Sequence 5, Application US/08238163  
Sequence 5, Application US/08238163  
Patent No. 5569830  
GENERAL INFORMATION:  
APPLICANT: BENNETT, Alan  
APPLICANT: LABAVITCH, John M.  
APPLICANT: POWELL, Ann  
APPLICANT: STORZ, Henrik  
TITLE OF INVENTION: PLANT INHIBITORS OF FUNGAL  
TITLE OF INVENTION: POLYALACTURONASES AND THEIR USE TO CONTROL FUNGAL DISEASE  
NUMBER OF SEQUENCES: 24  
CORRESPONDENCE ADDRESSES:  
ADDRESSEE: Townsend and Townsend Kourie and Crew  
STREET: Stewart Street Tower, One Market Plaza  
CITY: San Francisco  
STATE: California  
COUNTRY: US  
ZIP: 94105-1493  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/238,163  
FILING DATE: 03-MAY-1994  
CLASSIFICATION: 800  
ATTORNEY/AGENT INFORMATION:  
NAME: Bastian, Kevin L.  
REGISTRATION NUMBER: 34,774  
REFERENCE/DOCKET NUMBER: 2307E-540  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415) 543-9600  
TELEFAX: (415) 543-5043  
INFORMATION FOR SEQ ID NO: 5:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 215 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: unknown  
MOLECULE TYPE: protein  
NAME/KEY: misc feature  
LOCATION: 1..215

OTHER INFORMATION: /standard\_name= "Deduced amino acid  
OTHER INFORMATION: sequence of PGP from bean."  
SEQUENCE 215 BP; 15 A; 8 C; 25 G; 26 T; 141 OTHER.

Query Match  
Best Local Similarity 3.1%; Score 24; DB 1; Length 215;  
Matches 17; Conservative 42; Mismatches 50; Indels 0; Gaps 0;

Db 58 HNKYSANVYGNVGAATHYTHNVSGADSKTVDTSYNASGTSNNGTGNRSGA 117  
Cp 510 ATTGCTCTTAAGTCGCTTAGCAACCATCATATATTTTGAACATGCGAATTC 451  
Db 118 DSYSSKTAMTSRNTGKTANNAYDSRNMGDASVGS DKNTKKHAKNSAD 166  
Cp 450 GCCACCTAAATATGTTGTCACAACATGCTACCACTTCTGCGATTAAT 402

RESULT 5  
ID US-08-278-091-1 STANDARD; DNA; UNC; 2894 BP.  
AC xxxxxx  
DT  
DE  
Sequence 1, Application US/08278091  
Sequence 1, Application US/08278091  
Patent No. 5506139  
GENERAL INFORMATION:  
APPLICANT: LOOSMORE, Sheena M  
APPLICANT: YANG, Yan-Ping  
APPLICANT: CHONG, Pele  
APPLICANT: OOMEN, Raymond P.  
APPLICANT: KLEIN, Michel H.  
TITLE OF INVENTION: Analog of Haemophilus Hin47 Protein with  
TITLE OF INVENTION: Reduced Protease Activity  
NUMBER OF SEQUENCES: 23  
CORRESPONDENCE ADDRESSES:  
ADDRESSEE: Sim & McBurney  
STREET: Suite 701, 330 University Avenue  
CITY: Toronto  
STATE: Ontario  
COUNTRY: Canada  
ZIP: M5G 1R7  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/278,091  
FILING DATE: 21-JUL-1994  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Stewart, Michael I  
REGISTRATION NUMBER: 24,973  
REFERENCE/DOCKET NUMBER: 1038-371  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (416) 595-1155  
TELEFAX: (416) 595-1163  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 2894 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
SEQUENCE 2894 BP; 897 A; 570 C; 515 G; 912 T; 0 OTHER.

Query Match  
Best Local Similarity 2.9%; Score 22; DB 1; Length 2894;  
Matches 33; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Db 2675 CGTTTGTGTCGTCATATCTTCTAATGATGTTTACGCGCTT 2718  
Cp 180 CGCTTGTGTTGATTAATGTTCTCTAATAATTTTCAAGCTCT 137









CC CLASSIFICATION: 435  
CC ATTORNEY/AGENT INFORMATION:  
CC NAME: Carroll, Alice O.  
CC REGISTRATION NUMBER: 33,542  
CC REFERENCE/DOCKET NUMBER: UCT93-05  
CC TELECOMMUNICATION INFORMATION:

Query Match 2.6%; Score 20; DB 1; Length 42;  
Best Local Similarity 23.8%; Pred. No. 2.95e+00;

Matches 10; Conservative 21; Mismatches 11; Indels 0; Gaps 0;

Db 1 SRTMACAKYATMTMTSAWYACMRCSMTYMTSWTMMMSRT 42

Cp 265 CATCATATGGCCACATCTTTACCAATTGGCTCAAAACCAT 224

Search completed: Fri Jan 15 15:41:24 1999  
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